

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SG03/00088

**A. CLASSIFICATION OF SUBJECT MATTER**

Int. Cl. 7: G11C 11/15, 11/16

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC: G11C 11/--

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPAT, USPTO: magnetoresist? 'spin valve' MRAM

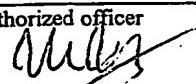
**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO-01/71735-A1, Motorola, Inc., 27 September 2001 (27-09-01) See page 10 line 17 to page 13 line 9 and figure 3.	1, 2, 6-18
A	US 6473328 B1, Mercaldi, 29 October 2002 (29-10-02) See whole document	
A	US 5966323, Chen et al., 12 October 1999 (12-10-99) See column 5 line 60 to column 7 line 21 and figure 8	
A	US 5930164, Zhu, 27 July 1999 (27-07-99) See whole document.	

Further documents are listed in the continuation of Box C

See patent family annex

* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 30 May 2003	Date of mailing of the international search report 11 JUN 2003
Name and mailing address of the ISA/AU <b>AUSTRALIAN PATENT OFFICE</b> PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer  <b>MICHAEL HARDY</b> Telephone No : (02) 6283 2547

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO	200171735	AU	200149381	EP	1269492
US	6473328	US	2003043614		
US	5966323		NONE		
US	5930164		NONE		

END OF ANNEX